

Product data sheet UHV gate valve, Series 108, DN 100 (ID 4") Ordering No. 10840-JE14

Description

JIS 100 Flange

Actuator pneumatic, double acting

Feedthrough **Bellows**

Technical data

 $< 5 \cdot 10^{-10} \text{ mbar ls}^{-1}$ Leak rate Valve body

< 1 · 10⁻⁹ mbar ls⁻¹ Valve seat

 $1 \cdot 10^{-10}$ mbar to 1.6 bar (abs) Pressure range

Differential pressure on the gate ≤ 1.6 bar Differential pressure at opening ≤ 30 mbar 1740 Is⁻¹ Conductance (molecular flow)

Cycles until first service 50 000 (unheated and under clean conditions)

Temperature - Valve Body ≤ 250 °C open / ≤ 200 °C closed (bake-out max. 24h)

(Maximum values: depending

on operating conditions and

sealing materials)

50 °C h⁻¹ Heating and cooling rate

Material (main components) Valve Body AISI 304 (1.4301)

Actuator

 Mechanism AISI 316L (1.4404), AISI 304 (1.4301)

≤ 200 °C

Bellows AISI 316L (1.4404, 1.4435)

Seal Bonnet metal

FKM (Viton®), vulcanized - Gate FKM (Viton®), NBR - Actuator

Mounting position any

Volume of pneumatic actuator 0.11 I / 0.0038 ft³

4 - 7 bar / 58 - 102 psi Compressed air

min. - max. overpressure

Compressed air connection G1/8" (1/8" NPT for USA)

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Actuation time - closing 1.2 s - opening 1.2 s

Weight 14.5 kg / 32 lbs

Behavior in case of compressed — Valve closed valve remains closed air pressure drop — Valve open undefined

Behavior in case of power failure - Valve closed valve remains closed

Valve open undefined

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